

AMENDMENT TO THE CLAIMS:

1. (Original) A method of effecting a reduction of energy usage in a room of a multi-unit building, comprising:

determining a vacant occupancy status of the room;

generating digital commands in response to the vacant occupancy status of the room;

converting the digital commands at a gateway device located inside of the room into infrared commands;

transmitting the infrared commands from the gateway device;

receiving the infrared commands at a room environment control device located inside of the room; and

converting the infrared commands into electronic commands which are processed by the room environmental control device to effect a reduction of energy usage by a room environmental device associated with the room environmental control device.

2. (Original) The method of claim 1 wherein the vacant occupancy status comprises an un-rented room.

3. (Original) The method of claim 1 wherein the vacant occupancy status comprises a rented room that is un-occupied.

4. (Original) The method of claim 1 wherein the determining the vacant occupancy status comprises tracking actuation of a door switch associated with a door of the room.

5. (Original) The method of claim 1 wherein the determining the vacant occupancy status comprises detecting motion within the room.

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6. (Original) The method of claim 1 further comprising:

receiving the infrared commands at a window treatment control device within the room; and

converting the infrared commands into electronic commands which are processed by the window treatment control device to set the window treatment to effect a reduction of energy usage by the room environmental device.

7. (Original) The method of claim 1 wherein the gateway device is associated with at least one of a light switch, a mini-bar, a telephone, a door lock, and a television set top box.

8. (Original) The method of claim 1 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

9. (Original) The method of claim 1 wherein the room environmental control device comprises a thermostat.

10. (Original) The method of claim 1 wherein the room environmental device comprises one of a Fan Coil Unit, a Heating Ventilation and Air Conditioning system, a Packaged Terminal Air Conditioner, and an Energy Management System.

11. (Original) The method of claim 1 wherein the infrared commands are diffused infrared dispersion.

12. (Original) A system for effecting a reduction of energy usage in a room of a multi-unit building, comprising:

means for determining a vacant occupancy status of the room to generate digital commands in response thereto;

a gateway device located inside of the room for converting the digital commands into

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infrared commands and transmitting the infrared commands within the room; and

a room environment control device located inside of the room, the room environment control device including means for receiving the infrared commands and converting the infrared commands into electronic commands which are processed to effect a reduction of energy usage by a room environmental device associated with the room environmental control device.

13. (Original) The system of claim 12 wherein the vacant occupancy status comprises an un-rented room.

14. (Original) The system of claim 12 wherein the vacant occupancy status comprises a rented room that is un-occupied.

15. (Original) The system of claim 12 wherein the means for determining the vacant occupancy status comprises a door switch associated with a door of the room.

16. (Original) The system of claim 12 wherein the means for determining the vacant occupancy status comprises a motion detector located inside of the room.

17. (Original) The system of claim 12 further comprising:

a window treatment control device located inside of the room, the window treatment control device including means for receiving the infrared commands and converting the infrared commands into electronic commands which are processed to set a window treatment to effect a reduction of energy usage by the room environmental device.

18. The system of claim 12 wherein the gateway device is associated with at least one of a light switch, a mini-bar, a telephone, a door lock, and a television set top box.

19. The system of claim 12 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

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20. (Original) The system of claim 12 wherein the room environmental control device comprises a thermostat.

21. (Original) The system of claim 12 wherein the room environmental device comprises one of a Fan Coil Unit, a Heating Ventilation and Air Conditioning system, a Packaged Terminal Air Conditioner, and an Energy Management System.

22. (Original) The system of claim 12 wherein the infrared commands are diffused infrared dispersion.

23. (Original) A method of profiling an occupant's desired environmental settings in a room of a multi-unit building, comprising:

converting electronic data indicative of a setting on a room environmental control device located inside of the room into infrared data;

transmitting the infrared data from the room environmental control device;

receiving the infrared data at a gateway device located inside of the room; and

converting the infrared data into digital data which is processed to generate a profile of the occupant's desired environmental settings.

24. (Original) The method of claim 23 wherein the gateway device is associated with at least one of a light switch, a mini-bar, a telephone, a door lock, and a television set top box.

25. (Original) The method of claim 23 wherein the gateway device is connected to a network of the multi-unit building and the digital data is provided to the network.

26. (Original) The method of claim 23 wherein the room environmental control device comprises a thermostat.

27. (Original) The method of claim 23 wherein the room environmental device

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comprises one of a Fan Coil Unit, a Heating Ventilation and Air Conditioning system, a Packaged Terminal Air Conditioner, and an Energy Management System.

28. (Original) The method of claim 23 wherein the infrared data is diffused infrared dispersion.

29. (Original) A system for profiling an occupant's desired environmental settings in a room of a multi-unit building, comprising:

a room environment control device located inside of the room, the room environment control device including means for converting electronic data indicative of a setting on a room environmental control device located inside of the room into infrared data and transmitting the infrared data from the room environmental control device;

a gateway device located inside of the room for receiving the infrared data at a gateway device located inside of the room and converting the infrared data into digital data; and

means for processing the digital data to generate a profile of the occupant's desired environmental settings.

30. (Original) The system of claim 29 wherein the gateway device is associated with at least one of a light switch, a mini-bar, a telephone, a door lock, and a television set top box.

31. (Original) The system of claim 29 wherein the gateway device is connected to a network of the multi-unit building and the digital data is provided to the network.

32. (Original) The system of claim 29 wherein the room environmental control device comprises a thermostat.

33. (Original) The system of claim 29 wherein the room environmental device comprises one of a Fan Coil Unit, a Heating Ventilation and Air Conditioning system, a

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Packaged Terminal Air Conditioner, and an Energy Management System

34. (Original) The system of claim 29 wherein the infrared data is diffused infrared dispersion.

35-50 (Cancelled)

51-62 (Cancelled)

63. (Original) A method of effecting a reduction of energy usage in a room of a multi-unit building, comprising:

determining a vacant occupancy status of a room;

generating digital commands in response to the vacant occupancy status of a room;

converting the digital commands at a gateway device located inside of the room into infrared commands;

transmitting the infrared commands from the gateway device;

receiving the infrared commands at a window treatment control device located inside of the room; and

converting the infrared commands into electronic commands which are processed by the window treatment control device to set the window treatment to effect a reduction of energy usage.

64. (Original) The method of claim 63 wherein the vacant occupancy status comprising an un-rented room.

65. (Original) The method of claim 63 wherein the vacant occupancy status comprising a rented room that is un-occupied.

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66. (Original) The method of claim 63 wherein the determining the vacant occupancy status comprises tracking actuation of a door switch associated with a door of the room.

67. (Original) The method of claim 63 wherein the determining the vacant occupancy status comprises detecting motion within the room.

68. (Original) The method of claim 63 wherein the gateway device is associated with at least one of a light switch, a thermostat, a mini-bar, a telephone, a door lock, and a television set top box.

69. (Original) The method of claim 63 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

70. (Original) The method of claim 63 wherein the infrared commands are diffused infrared dispersion.

71. (Original) A system for effecting a reduction of energy usage in a room of a multi-unit building, comprising:

means for determining a vacant occupancy status of a room to generate digital commands in response to the vacant occupancy status of a room;

a gateway device located inside of the room for converting the digital commands into infrared commands and transmitting the infrared commands within the room;

a window treatment control device located inside of the room, the window treatment control device including means for receiving the infrared commands and converting the infrared commands into electronic commands which are processed to set the window treatment to effect a reduction of energy usage.

72. (Original) The system of claim 70 wherein the vacant occupancy status comprising an un-rented room.

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73. (Original) The system of claim 70 wherein the vacant occupancy status comprising a rented room that is un-occupied.

74. (Original) The system of claim 70 wherein the means for determining the vacant occupancy status comprises a door switch associated with a door of the room.

75. (Original) The system of claim 70 wherein the means for determining the vacant occupancy status comprises a motion detector located inside of the room.

76. (Original) The system of claim 70 wherein the gateway device is associated with at least one of a light switch, a thermostat, a mini-bar, a telephone, a door lock, and a television set top box.

77. (Original) The system of claim 70 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

78. (Original) The system of claim 70 wherein the infrared commands are diffused infrared dispersion.

79-130 (Cancelled)

131-154 (Cancelled)

155-164 (Cancelled)

165. (Original) A method of effecting a reduction of energy usage in a room of a multi-unit building, comprising:

determining a vacant occupancy status of a room;

generating digital commands in response to the vacant occupancy status of a room;

converting the digital commands at a gateway device located inside of the room into

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infrared commands;

transmitting the infrared commands from the gateway device;

receiving the infrared commands at a light switch located inside of the room; and

converting the infrared commands into electronic commands which are processed to turn the light switch off.

166. (Original) The method of claim 165 wherein the vacant occupancy status comprising an un-rented room.

167. (Original) The method of claim 165 wherein the vacant occupancy status comprising a rented room that is un-occupied.

168. (Original) The method of claim 165 wherein the determining the vacant occupancy status comprises tracking actuation of a door switch associated with a door of the room.

169. (Original) The method of claim 165 wherein the determining the vacant occupancy status comprises detecting motion within the room.

170. (Original) The method of claim 165 wherein the gateway device is associated with at least one of the light switch, a thermostat, a mini-bar, a telephone, a door lock, and a television set top box.

171. (Original) The method of claim 165 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

172. (Original) The method of claim 165 wherein the infrared commands are diffused infrared dispersion.

173. (Original) A system for effecting a reduction of energy usage in a room of a

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multi-unit building, comprising:

means for determining a vacant occupancy status of a room to generate digital commands in response to the vacant occupancy status of a room;

a gateway device located inside of the room for converting the digital commands into infrared commands and transmitting the infrared commands within the room;

a light switch located inside of the room, the light switch including means for receiving the infrared commands and converting the infrared commands into electronic commands which are processed to turn the light switch off.

174. (Original) The system of claim 173 wherein the vacant occupancy status comprising an un-rented room.

175. (Original) The system of claim 173 wherein the vacant occupancy status comprising a rented room that is un-occupied.

176. (Original) The system of claim 173 wherein the means for determining the vacant occupancy status comprises a door switch associated with a door of the room.

177. (Original) The system of claim 173 wherein the means for determining the vacant occupancy status comprises a motion detector located inside of the room.

178. (Original) The system of claim 173 wherein the gateway device is associated with at least one of the light switch, a thermostat, a mini-bar, a telephone, a door lock, and a television set top box.

179. (Original) The system of claim 173 wherein the gateway device is connected to a network of the multi-unit building and the digital commands are provided by the network.

180. (Original) The system of claim 173 wherein the infrared commands are diffused

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infrared dispersion.

181-190 (Cancelled)

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